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NOTICE OF ALLOWANCE AND FEE(S) DUE

22879 7590 0604/2009 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELL FCTUAL PROPERTY ADMINISTRATION

FORT COLLINS, CO 80527-2400

EXAMINER

WILLS, LAWRENCE E

ART UNIT PAPER NUMBER

2625 DATE MAILED: 06/04/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTERMATION NO.

 10/723,232
 11/26/2003
 Huanzhao Zeng
 200300145-1
 9134

TITLE OF INVENTION: IMAGING SYSTEM COLOR PROFILE NEUTRAL GRAY ADJUSTMENT

 APPIN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 09/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corre	naintenance fees w spondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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FORT COLLIN	S, CO 80527-2400						(Depositor's name)
			<u> </u>				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOC		RNEY DOCKET NO.	CONFIRMATION NO.
10/723,232 TITLE OF INVENTION	1 I/26/2003 I: IMAGING SYSTEM C	COLOR PROFILE NEUT	Huanzhao Zeng TRAL GRAY ADJUSTME	NT		200300145-1	9134
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	09/04/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
WILLS, LA	WRENCE E	2625	358-001900	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignce is ident h in 37 CFR 3.II. Comp	inge of Correspondence "Indication form and. Use of a Customer A TO BE PRINTED ON 7	2. For printing on the p (I) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or 2 registered patent atto listed, no name will be THE PATENT (print or ty) data will appear on the p TT a substitute for filing an (B) RESIDENCE: (CITY)	3 registered patent vely, e firm (having as a agent) and the name rneys or agents. If a printed. be) atent. If an assigna assignment.	membes of u	er a 2	ocument has been filed for
4a. The following fee(s)		categories (will not be p	b. Payment of Fee(s): (Plea		•		oup entity Government
☐ Issue Fee ☐ Publication Fee (N ☐ Advance Order -	so small entity discount p	permitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no lon				
interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered a	ittorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,232	11/26/2003	Huanzhao Zeng	200300145-1	9134
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HEWLETT PA	CKARD COMPANY	WILLS, LAWRENCE E		
), 3404 E. HARMONY I	ART UNIT	PAPER NUMBER	
INTELLECTUA	L PROPERTY ADMIN	2625		

FORT COLLINS, CO 80527-2400

I'ELLECTUAL PROPERTY ADMINISTRATION

DATE MAILED: 06/04/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1068 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1068 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	Applicant(s)			
10/723,232	ZENG ET AL.				
Examiner	Art Unit				
AWRENCE E WILLS	2625				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment filed 2/11/09.
- 2. The allowed claim(s) is/are 1, 2, 4, 5, 6, 11, 16, 18, 21, 22, 25-35, and 37.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of

each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other . /King Y. Poon/

Supervisory Patent Examiner, Art Unit 2625

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DETAILED ACTION

Response to Arguments

 Applicant's arguments see Remarks, filed February 11, 2009, with respect to claims 1-6, 16-22, 30-35, and 37 have been fully considered and are persuasive. The 35 U.S.C. 102(e) rejection of claims 1-6, 16-22,30-35, and 37 has been withdrawn.

Allowable Subject Matter

- 2. Claims 1, 2, 4, 5, 6, 11, 16, 18, 21, 22, 25-35, and 37 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Independent claims 1, 18, and 32 identify the unique distinct feature of:

 "A method comprising: designing a target comprising a plurality of near-neutral patches surrounding a plurality of neutral gray patches in different lightness levels ranging from white to black; defining a desired neutral aim in a device independent profile connection space (PCS); receiving a plurality of measurements of the plurality of near-neutral patches for different lightness levels from the target printed by an imaging system using a first plurality of sets of color values of the imaging system's color space, derived based on a second plurality of sets of color values of the PCS and in accordance with a print table of a color profile of the imaging system mapping color value sets from the PCS to color value sets in the imaging system's color space, the second plurality of sets of color values defining the near-neutral patches of the target in the PCS; and computing a third plurality of sets of color values for the

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imaging system to output a corresponding plurality of neutral gray outputs at the different lightness levels, by interpolation, based at least in part on the received measurements, wherein the interpolation comprises: retrieving a fourth plurality of sets of color values in the imaging system's color space corresponding to plurality of nodes in the PCS defining an area in a lightness level containing a neutral node of the lightness level and associated with up to nine computing the corresponding set of the third plurality of sets of color values based on the fourth plurality of sets of color values; constructing eight triangles by first dividing the area into four quadrangles and subdividing the quadrangles into a total of 8 triangles; searching exhaustively the eight triangles to determine a triangle containing the neutral node of the lightness level; computing the third plurality of sets of color values by three point interpolation."

The closest prior art Dalrymple'016 teaches interpolating outputs from look-up tables by selecting a set of look-up tables for use with a specific color polyhedron.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAWRENCE E. WILLS whose telephone number is (571)270-3145. The examiner can normally be reached on Monday-Friday 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on 571-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/ Supervisory Patent Examiner, Art Unit 2625 Application/Control Number: 10/723,232 Page 5

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May 26, 2009